

## WHAT IS CLAIMED IS:

1. A generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

printing images for measuring amounts of brightness while compensating for the nonlinear characteristics;

measuring amounts of brightness of the printed images;

generating a tone correction table based on the measured amounts of brightness; and

applying conversion that considers the nonlinear characteristics to the tone correction table.

2. The method according to claim 1, wherein the printing apparatus handles a plurality of neighboring dots as one dot, and expresses tone of one pixel as a combination of ON and OFF of the dots.

3. An image processing method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

printing images for measuring amounts of brightness, which include an image corresponding to an input signal at which the print characteristics inflect;

measuring amounts of brightness of the printed images; and

generating a tone correction table based on the measured amounts of brightness.

4. The method according to claim 3, wherein the printing apparatus handles a plurality of neighboring dots as one dot, and expresses tone of one pixel as a combination of ON and OFF of the dots.

5. A control method of a generator for generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

supplying images for measuring amounts of brightness, the nonlinear characteristics of which have been compensated for, to the printing apparatus;

generating a tone correction table based on amounts of brightness which are obtained by measuring the printed images; and

applying conversion that considers the nonlinear characteristics to the tone correction table.

6. The method according to claim 5, further comprising a step of setting the generated tone correction table in a correction circuit which corrects tone characteristics of an image signal to be supplied to the printing apparatus.

7. A control method of a generator for generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

supplying images for measuring amounts of brightness, which include an image corresponding to an input signal at which the print characteristics inflect, to the printing apparatus; and

generating a tone correction table based on amounts of brightness which are obtained by measuring the printed images.

8. The method according to claim 7, further comprising a step of setting the generated tone correction table in a correction circuit which corrects tone characteristics of an image signal to be supplied to the printing apparatus.

9. A computer program for a generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a

print signal to be output in accordance with the input signal, the method comprising steps of:

- printing images for measuring amounts of brightness while compensating for the nonlinear characteristics;

- measuring amounts of brightness of the printed images;

- generating a tone correction table based on the measured amounts of brightness; and

- applying conversion that considers the nonlinear characteristics to the tone correction table.

10. A computer program product storing a computer readable medium comprising a computer program code, for a generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

- printing images for measuring amounts of brightness while compensating for the nonlinear characteristics;

- measuring amounts of brightness of the printed images;

- generating a tone correction table based on the measured amounts of brightness; and

applying conversion that considers the nonlinear characteristics to the tone correction table.

11. A computer program for a generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

printing images for measuring amounts of brightness which include an image corresponding to an input signal at which the print characteristics inflect;

measuring amounts of brightness of the printed images; and

generating a tone correction table based on the measured amounts of brightness.

12. A computer program product storing a computer readable medium comprising a computer program code, for a generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

printing images for measuring amounts of brightness which include an image corresponding to an

input signal at which the print characteristics inflect;

measuring amounts of brightness of the printed images; and

generating a tone correction table based on the measured amounts of brightness.

13. A generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising step of generating, on the basis of a first tone correction table which is generated while compensating for the nonlinear characteristics, a second tone correction table having a maximum value different from the first tone correction table.

14. The method according to claim 13, wherein the second tone correction table is generated on the basis of an input image signal to the printing apparatus and print density characteristics of the printing apparatus.

15. The method according to claim 13, wherein the second tone correction table is generated on the basis of a table, which is generated from a table corresponding to the nonlinear characteristics while compensating for the nonlinear characteristics, to have the first tone correction table as an input.

16. The method according to claim 13, wherein the second tone correction table is generated on the basis of a table which is obtained by variably scaling tone correction values of the first tone correction table.

17. The method according to claim 13, wherein the second tone correction table is used to correct a dot quantity of a print material of a print medium in consideration of an acceptable quantity of the print material.

18. A control method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising steps of:

    setting a first tone correction table generated while compensating for the nonlinear characteristics; and

    generating a second tone correction table having a maximum value different from the first tone correction table on the basis of the first tone correction table.

19. A computer program for a generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input

signal, the method comprising step of generating, on the basis of a first tone correction table which is generated while compensating for the nonlinear characteristics, a second tone correction table having a maximum value different from the first tone correction table.

20. A computer program product storing a computer readable medium comprising a computer program code, a generation method of generating a correction table used to correct print characteristics of a printing apparatus which has nonlinear characteristics between an input signal and a print signal to be output in accordance with the input signal, the method comprising step of generating, on the basis of a first tone correction table which is generated while compensating for the nonlinear characteristics, a second tone correction table having a maximum value different from the first tone correction table.